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Immunological aspects of COVID-19: What do we know?

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Abstract

The newly emerged coronavirus (severe acute respiratory syndrome coronavirus 2, SARS-CoV-2) and the disease that it causes – coronavirus disease 2019 (COVID-19), has changed the world we know. Yet, the origin and evolution of SARS-CoV-2 remain mostly vague. Many virulence factors and immune mechanisms contribute to the deteriorating effects on the organism during SARS-CoV-2 infection. Both humoral and cellular immune responses are involved in the pathophysiology of the disease, where the principal and effective immune response towards viral infection is the cell-mediated immunity. Regarding the clinical picture of COVID-19, it remains unclear and unpredictable, as well as the immune memory and reinfection. However, many hopes are put in developing an effective vaccine against the virus, as well as different

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